

Prof. HASAN YÜKSEL GÜNEY

Personal Information

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Education Information

Doctorate, Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 1984 - 1990

Under Graduate, Karadeniz Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, Turkey 1973 - 1977

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Physics, Interdisciplinary Physics and Related Science and Technology Areas, Materials Science, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Mechanical and Acoustic Properties of Condensed Matter, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures, Optical Properties, Spectroscopy of Matter, Natural Sciences

Academic Titles / Tasks

Professor, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2002 - Continues

Associate Professor, Karadeniz Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 1997 - 2002

Assistant Professor, Karadeniz Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 1991 - 1997

Research Assistant, Karadeniz Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 1980 - 1990

Professional Experience

Head of Department, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2002 - 2017

Dean, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2002 - 2009

Vice Dean, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2002 - 2004

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **BODIPY substituted zinc(II) phthalocyanine and its bulk heterojunction application in solar cells**
Omeroglu I., Senocak A., Yetkin H., Güney H. Y. , Demirbas E., Durmus M.
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- **Optimization of annealing temperature and the annealing effect on life time and stability of P3HT:PCBM-based organic solar cells**
Güney H. Y. , Avdan Z., Yetkin H.
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- **Dielectric properties of lithium-perchlorate-filled acrylonitrile-hexyl methacrylate copolymer films**
Cicek M., Vargun E., ABACI U., GÜNEY H. Y.
POLYMER COMPOSITES, vol.38, pp.1792-1799, 2017 (Journal Indexed in SCI)
- **Mechanical, electrical, and melt flow properties of polyurethane elastomer/surface-modified carbon nanotube composites**
Tayfun U., KANBUR Y., ABACI U., Guney H. Y. , Bayramli E.
JOURNAL OF COMPOSITE MATERIALS, vol.51, pp.1987-1996, 2017 (Journal Indexed in SCI)
- **Synthesis of new 2,5-di(thiophen-2-yl)furan-3-carbonitrile derivatives and investigation of the electrochromic properties of homopolymers and co-polymers with EDOT**
Abaci U., USTALAR A., YILMAZ M., GÜNEY H. Y.
RSC ADVANCES, vol.6, pp.27836-27845, 2016 (Journal Indexed in SCI)
- **Improvement of photovoltaic performance and stability of AnE-PV:PCBM based organic solar cells using solution processed inverted geometry**
Yuksel S. A. , Ongul F., Bozar S., Varal N. M. , Kus M., ÇAKMAK G., GÜNEY H. Y. , Egbe D. A. M. , GÜNEŞ S.
VACUUM, vol.122, pp.161-167, 2015 (Journal Indexed in SCI)
- **Mechanical, flow and electrical properties of thermoplastic polyurethane/fullerene composites: Effect of surface modification of fullerene**
Tayfun U., KANBUR Y., ABACI U., GÜNEY H. Y. , Bayramli E.
COMPOSITES PART B-ENGINEERING, vol.80, pp.101-107, 2015 (Journal Indexed in SCI)
- **Vacuum-free processed bulk heterojunction solar cells with E-GaIn cathode as an alternative to Al electrode**
Ongul F., Yuksel S. A. , Bozar S., ÇAKMAK G., GÜNEY H. Y. , Egbe D. A. M. , GÜNEŞ S.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.48, 2015 (Journal Indexed in SCI)
- **The effect of functionalized single walled carbon nanotube with octadecylamine on efficiency of poly-(3-hexylthiophene): [(6,6)] phenyl C-61 butyric acid methyl ester organic solar cells**
ÇAKMAK G., GÜNEY H. Y. , Yuksel S. A. , GÜNEŞ S.
PHYSICA B-CONDENSED MATTER, vol.461, pp.85-91, 2015 (Journal Indexed in SCI)
- **Effects of B2O3 Addition on Structural and Dielectric Properties of PVDF**
KADİROĞLU Ü., ABACI U., GÜNEY H. Y.
POLYMER ENGINEERING AND SCIENCE, vol.54, pp.2536-2543, 2014 (Journal Indexed in SCI)
- **Effect of LiClO4 Salt on Dielectric Properties of Acrylonitrile-Methyl Methacrylate and Acrylonitrile-Isobutyl Methacrylate Copolymers**
Vargun E., ABACI U., Sankir M., Usanmaz A., GÜNEY H. Y.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.51, pp.156-164, 2014 (Journal Indexed in SCI)
- **Preparation, Solubility, and Electrical Properties of Multiwalled Carbon Nanotubes/Poly(1-vinyl-1,2,4-triazole) Composites via in situ Functionalization**
TEKİN N., Kara A., Beyaz S. K. , Simsek E., ÇAKMAK G., GÜNEY H. Y. , Lamari F. D.
POLYMER-PLASTICS TECHNOLOGY AND ENGINEERING, vol.53, pp.840-850, 2014 (Journal Indexed in SCI)
- **Hybrid solar cells using CdS thin films deposited via spray pyrolysis technique**
Yuksel S. A. , GÜNEŞ S., GÜNEY H. Y.
THIN SOLID FILMS, vol.540, pp.242-246, 2013 (Journal Indexed in SCI)
- **Morphological and electrochemical properties of PPy, PANi bilayer films and enhanced stability of their electrochromic devices (PPy/PAni-PEDOT, PANi/PPy-PEDOT)**
Abaci U., Güney H. Y. , Kadiroglu Ü.
ELECTROCHIMICA ACTA, vol.96, pp.214-224, 2013 (Journal Indexed in SCI)
- **The synthesis of covalent bonded single-walled carbon nanotube/polyvinylimidazole composites by in situ polymerization and their physical characterization**
TEKİN N., Beyaz S. K. , Kara A., Simsek E., Lamari F. D. , ÇAKMAK G., GÜNEY H. Y.
POLYMER COMPOSITES, vol.33, pp.1255-1262, 2012 (Journal Indexed in SCI)
- **Preparation and characterization of acrylonitrile-ethyl methacrylate copolymers and the effect of**

LiClO₄ salt on electrical properties of copolymer films

Vargun E., Sankir M., Usanmaz A., Kanbur Y., ABACI U., GÜNEY H. Y.

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● **Synthesis, characterization and dielectric behavior of (ES)-form polyaniline/cerium(III)-nitrate-hexahydrate composites**

ÖZKAZANÇ E., ZOR S., ÖZKAZANÇ H., GÜNEY H. Y. , ABACI U.

MATERIALS CHEMISTRY AND PHYSICS, vol.133, pp.356-362, 2012 (Journal Indexed in SCI)

● **Synthesis Characterization and Dielectric Behavior of ES Form Polyaniline Cerium III Nitrate Hexahydrate Composites**

ÖZKAZANÇ E., ZOR S., ÖZKAZANÇ H., GÜNEY H. Y. , ABACI U.

Materials Chemistry And Physics, vol.133, pp.356-362, 2012 (Journal Indexed in SCI Expanded)

● **In situ polymerization synthesis and characterization of single wall nanotubes/poly(vinyl)triazole nanocomposites**

BEYAZ S. K. , TEKİN N., KARA A., SİMSEK E., ÇAKMAK G., GÜNEY H. Y. , LAMARİ F. D.

JOURNAL OF COMPOSITE MATERIALS, vol.45, pp.1523-1531, 2011 (Journal Indexed in SCI)

● **Water soluble poly(1-vinyl-1,2,4-triazole) as novel dielectric layer for organic field effect transistors**

ABBAS M., ÇAKMAK G., TEKİN N., KARA A., GÜNEY H. Y. , Arici E., SARIÇİFTÇİ N. S.

ORGANIC ELECTRONICS, vol.12, pp.497-503, 2011 (Journal Indexed in SCI)

● **Morphological and Dielectric Properties of Barium Chloride-Filled Poly(vinylidene fluoride) Films**

ÖZKAZANÇ E., GÜNEY H. Y. , GÜNER S., ABACI U.

POLYMER COMPOSITES, vol.31, pp.1782-1789, 2010 (Journal Indexed in SCI)

● **The Variation of the Dielectric Constant and Loss Index with Temperature and Draw Ratio in alpha-PVDF**

ÖZKAZANÇ E., GÜNEY H. Y.

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● **The effect of uniaxial orientation on the dielectric relaxation behavior of alpha-PVDF**

ÖZKAZANÇ E., GÜNEY H. Y. , OSKAY T., TARCAN E.

JOURNAL OF APPLIED POLYMER SCIENCE, vol.109, pp.3878-3886, 2008 (Journal Indexed in SCI)

● **Elastic properties and mechanical relaxation behaviors of PVDF (poly (vinylidene fluoride)) at temperatures between-20 and 100 degrees C and at 2 MHz ultrasonic frequency**

Güney H. Y.

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● **The mechanical anisotropy of stratified polyvinyl chloride**

Sinan Özkan H., Oskay T., Yüksel Güney H. Y. , Dirim H.

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● **MECHANICAL ANISOTROPY IN BIAXIALLY ORIENTED POLYVINYL-CHLORIDE**

GÜNEY H. Y. , OSKAY T., ÖZKAN H. S.

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Refereed Congress / Symposium Publications in Proceedings

● **The Annealing Effect On The Battery Life of P3HT PCBM Based Organic Solar Cells**

AVDAN Z., GÜNEY H. Y.

Turkish Physical Society, Muğla, Turkey, 6 - 09 Eylül 2016

● **Polyaniline polypyrrole bilayer electrochromic films and enhanced stability their electrochromic devices PANi PPy PEDOT PPy PANi PEDOT**

ABACI U., GÜNEY H. Y. , KADİROĞLU Ü.

Advanced Materials World Congress, İzmir, Turkey, 16 - 19 September 2013

● **Synthesis of 4 Phenyl 2 5 Di Thiophene 2 Y1 4 5 Dihydrifuran 3 Carbonitrile and Investigation of Its**

Electrochromic Properties

ABACI U., YILMAZ M., GÜNEY H. Y.

44th World Chemistry Congress, İstanbul, Turkey, 11 - 16 August 2013

Farklı Metakrilat Grupları İçeren Poliakrilonitril Kopolimerlerinin Elektriksel Özellikleri

VARGÜN E., SANKIR M., USANMAZ A., ABACI U., GÜNEY H. Y.

26. Ulusal Kimya Kongresi, Muğla, Turkey, 1 - 06 October 2012

Poliakrilonitril metakrilat Bazlı Kopolimerlerin Elektriksel Özelliklerinin İncelenmesi

VARGÜN E., SANKIR M., USANMAZ A., KANBUR Y., ABACI U., GÜNEY H. Y.

4. Ulusal Polimer Bilim ve Teknoloji Kongresi, Çanakkale, Turkey, 5 - 08 September 2012

Low Voltage Operation of Organic Field Effect Transistors Based on Poly 1 vinyl 1 2 4 triazole

GÜLBEDEN Ç., MAMATİMİN A., TEKİN N., KARA A., NİYAZİ SERDAR S., GÜNEY H. Y.

Nanoscience and Nanotechnology Conference, 15 - 18 June 2010

BaCl₂ katkılamanın PVDF'nin dielektrik özellikleri üzerine etkisi

ÖZKAZANÇ E., GÜNEY H. Y. , GÜNER S., ABACI U.

3. Ulusal Polimer Bilim ve Teknoloji Kongresi, Kocaeli, Turkey, 12 - 14 May 2010

Suda Çözünür Poli vinil triazol ün Dielektrik Olarak Organik Alan Etkili Transistörlerde Kullanımı

ÇAKMAK G., MAMATİMİN A., TEKİN N., KARA A., NİYAZİ SERDAR S., GÜNEY H. Y.

3. Ulusal Polimer Bilim ve Teknoloji Kongresi, Turkey, 12 - 14 May 2010

Non-reproducible electrical properties of semiconductor PVDF-HFP

(hexafluoropropylenevinylidene fluoride) copolymer

LİKOĞLU G., GÜNEY H. Y. , ABACI U.

6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.783

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hexafluoropropylenevinylidene fluoride Copolymer

LİKOĞLU G., GÜNEY H. Y. , ABACI U.

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Farklı oranlarda karbon içeren Poliviniliden florit ko hekzafloropropilen PVDF HFP kopolimerin elektriksel özelliklerinin incelenmesi

ALMASULU H. N. , GÜNEY H. Y. , TARCAN E., LİKOĞLU G., ABACI U.

1. Ulusal Polimer Bilim ve Teknoloji Kongresi ve Sergisi, Ankara, Turkey, 21 - 23 June 2006

Yarıiletken Hegzafloropropilenvinilidinflorid PVDF HFP kopolimerin elektriksel özelliklerinin sıcaklık ve elektrik alan şiddetine bağlılığı

LİKOĞLU G., GÜNEY H. Y. , TARCAN E., ABACI U.

1. Ulusal Polimer Bilim ve Teknoloji Kongresi ve Sergisi, Ankara, Turkey, 21 - 23 June 2006

Polistiren katkılı Poli Vinil Klorür ün dielektrik özelliklerinin katkı oranına ve sıcaklığa bağlı değişimi

ABACI U., GÜNEY H. Y. , TARCAN E., GÜLBEDEN L.

1. Ulusal Polimer Bilim ve Teknoloji Kongresi ve Sergisi, Ankara, Turkey, 21 - 23 June 2006

Supported Projects

GÜNEY H. Y. , Project Supported by Higher Education Institutions, İNVERT YAPILI HİBRİT GÜNEY PİLLERİNİN (ITO/TİO₂/BCP/P3HT:PCB/AG) ÜRETİMİ VE KARAKTERİZASYONU, 2018 - 2019

GÜNEY H. Y. , Project Supported by Higher Education Institutions, ORGANİK GÜNEŞ PİLLERİNİN KUANTUM VERİM ÖLÇÜMÜNÜN GLOVE-BOX İÇİNDE GERÇEKLEŞTİRİLMESİ, 2015 - 2016

GÜNEY H. Y. , Project Supported by Higher Education Institutions, Yeni Hybrid Güneş Pillerinde Kullanılan İnorganik Yarı İletken Filmlerin Üretim Yöntem ve Şartlarının Pillerin Verimine Etkisinin İncelenmesi, 2011 - 2013

GÜNEY H. Y. , Project Supported by Higher Education Institutions, Yüksek Verimli Organik Güneş Pillerinin Üretiminde Fonksiyonelleştirilmiş Karbon Nanotüplerin Etkisi, 2010 - 2013

GÜNEY H. Y. , Project Supported by Higher Education Institutions, Karbon Nanotüplerin Organik ve Hibrid Güneş Pillerine Uygulanması (Gülbeden ÇAKMAK Tez Projesi), 2010 - 2012

GÜNEY H. Y. , Project Supported by Higher Education Institutions, Polipirol, Polianilin, Polietilendiyoksitiyofen İçeren Elektrokromik Cihaz (ECD) Üretimi ve Özelliklerinin Araştırılması (Ufuk ABACI Tez Projesi), 2010 - 2012

Citations

Total Citations (WOS):272

h-index (WOS):9